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Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>SW. Alaska</u>
11-5615
DESCRIPTIVE REPORT.
Hyd. <u>Sheet No. A 4500</u>
LOCALITY: <u>Alaska Pen. — S. Inlet — False Pass</u>
<u>Traders Cove to Bechevin Bay</u>
<u>1925</u>
CHIEF OF PARTY: <u>R. F. Luce</u>

208

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 11-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON August 18, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4500

Isanotski Strait, Alaska Peninsula

Surveyed in 1925

Instructions dated March 20, 1925

Chief of Party, R. F. Luce.

Surveyed by A. J. Hoskinson, W. Weidlich.

Protracted by W. W.

Soundings plotted by field party.

Verified and inked by G. Risehari.

1. The records conform to the requirements of the General Instructions except that Vol. 2 (A. J. Hoskinson in charge) was defective in the following respects:
 - a. No compass courses were given.
 - b. Notations as to beginnings and endings of lines were omitted.
 - c. No bottom characteristics were given, notwithstanding the fact that this volume covers all of Traders Cove (apparently the only anchorage in this vicinity) and the entrance thereto.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions except that a closer development should have been made of Traders Cove and the entrance thereto. Also more soundings should have been taken in the vicinity of Lat. 54° 55', Long. 163° 22 1/2' where this sheet joins H. 4394.
4. No cross lines were run, but a comparison of adjacent lines shows good agreement in the soundings.

5. The information is generally sufficient for drawing the usual depth curves.
6. The junctions with the adjacent surveys are satisfactory.
7. No additional work is necessary except as mentioned in paragraph 3.
8. Character and scope of field operations - good.
Field drafting - excellent.
9. Reviewed by A. L. Shalowitz, July 30, 1926.

WWB
MAR 25 1926

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4500

Locality: S. W. Alaska

C Chief of Party: A. F. Lase in 1925

Plane of reference is
6.5 ft. on tide staff at False Pass.

For reduction of soundings, condition of records satisfactory
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted
3. Time meridian not given at beginning of day's work.
4. Time (whether A. M. or P. M.) not given at beginning of day's work..
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

No reducers entered by field party.



Chief, Division of Tides and Currents.

DESCRIPTIVE REPORT TO ACCOMPANY SHEET "A"

HYDROGRAPHY OF FALSE PASS, S.W. ALASKA.

Date of Instructions: March 20th 1925.

GENERAL DESCRIPTION

This sheet embraces hydrography joining that done by parties from the PIONEER in 1924 and covers the eastern side of False Pass (Isanotski Strait) from triangulation station EASY to station NEW, as well as including the hitherto unsurveyed bay known as Traders Cove.

CURRENTS

Tidal currents, which have a velocity of 8 or more miles per hour in the narrow southern part of the Strait, are considerably reduced over the area covered by this sheet on account of the greatly increased width of the pass north of the False Pass Cannery; but currents estimated at 2 or more knots running north and south through the Pass were experienced while running the lines on this sheet.

BARB AND CHANNELS

The main channel leading from Ikatan Bay to the Bering Sea was developed during the 1924 season and passes well to the westward of the area covered by the present sheet. The soundings in the north-westerly corner of the present surveyed area as shown on this sheet indicate the southerly end of the very shoal area referred to in the opening sentence of the third paragraph of page 192 in the Coast Pilot for Alaska, Part II. The deepest water into Traders Cove is obtained by steering a mid-channel course, with a little advantage being obtained by favoring slightly the south side until Morzhovoi Village is reached.

ANCHORAGES

No opportunity was afforded during this survey to determine the value of the anchorage in Traders Cove nor in the deeper water near the mouth of the cove but it is believed that satisfactory holding ground can be found in 3 or 4 fathoms off the village for boats and small vessels, and that vessels may anchor safely in 6 or 7 fathoms outside the cove.

SURVEY METHODS

The conventional method of launch hydrography was followed, with lines spaced 300 meters apart. Hand soundings were taken in depths of ten fathoms or less, and machine soundings with a 15 pound lead were made in the greater depths.

Sheet inspected by Comdg. Officer May 15, 25, June 9, 13, 26, 1925
DP Luce

Statistics Sheet No. A

Date 1925	Letter	Volume	Positions	Soundings	Miles Statute	Vessels
May 15	a	1	30	74	3.3	M.S. 9843
" 25	b	1	51	176	8.1	" "
June 9	c	1	71	126	13.7	M.S. 8171
" 13	d	1	6	11	1.2	" "
" 26	a	2	92	320	13 $\frac{1}{2}$	S.L. 1915
				250	707	39.80

All soundings are in fathoms and on the boat sheet have NOT
been reduced for tide.

The plane of reference is to be M.L.L.W.

Plane of Reference Reading on Gauge =

Lowest tide observed, " " " =

Highest " " " " " =

An automatic portable tide gauge was in operation at
Ikatak during the period of this sounding,
but the readings on a temporary tide staff
installed at False Pass Cannery should be
used for tide reducers in this work.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. A 4500

State SW. Alaska.

General locality Alaska Peninsula ~~False Pass~~ Isanotski Strait

Locality Traders Cove to Bechevin Bay
~~False Pass~~

Chief of party R. F. Luce

Surveyed by A. J. Hoskinson & W. Weidlich.

Date of survey May, June 1925

Scale 1:20,000

Soundings in Fathoms at M.L.L.W.

Plane of reference M.L.L.W.

Protracted by W. Weidlich. Soundings in pencil by F. P.

Inked by Verified by

Records accompanying sheet (check those forwarded):

Des. report, ☒ Tide books, ☐ Marigrams, ☐ Boat sheets,

☒ Sounding books, ☐ Wire-drag books, ☐ Photographs.

Data from other sources affecting sheet

Remarks: Sheet recommended for approval. Oct. 25, 1925

R. F. Luce
Comd'g the Pioneer